



THE UNIVERSITY OF ARIZONA
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COLLEGE OF AGRICULTURE
DEPARTMENT OF WATERSHED MANAGEMENT

May 31, 1973

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E7.3 10666

CR-132177

Mr. Burton B. Schardt
ERTS Program Manager
Code ER, NASA Headquarters
Washington, D.C. 20546

Subject: Progress Report (Type I)
(April 1, 1973 - May 31, 1973)

Contract NAS5 - 21820

- a. Use of Earth Resources Technological Satellite (ERTS)
Data in a Natural Resource Inventory. (SR099).
- b. CSFC - UN 620.
- c. None.
- d. During this reporting period several attempts were made
using a video-densitometer and a color additive viewer
to determine if landscape units defined on aircraft data
could be identified on ERTS data. These trials were
generally unsuccessful except where landscape units were
strikingly dissimilar. Specifically the only landscape
unit which could regularly be detected on ERTS imagery was
a cienega which differed considerably from the surrounding
grasslands.

Work is currently being done with a device designed
to give an index of drainage densities for each landscape
unit. Initial results indicate that this index may be an
excellent discriminator or descriptor for the units as
they are presently recognized and mapped.

During the next reporting period taxonomic units will
be identified within each geomorphic-soil-vegetation unit
and selected sites will be sampled on the ground. This work
will continue for approximately four months.

- e. Not applicable at this time.

(E73-10666) USE OF EARTH RESOURCES
TECHNOLOGICAL SATELLITE (ERTS) DATA IN A
NATURAL RESOURCE INVENTORY Progress
Report, 1 Apr. - 31 May 1973 (Arizona
Univ., Tucson.) 2 p HC \$3.00 CSCL 05B

N73-25361

Unclas
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- f. Not applicable at this time.
- g. Not applicable at this time.
- h. None.
- i. None.
- j. None.
- k. None.

Ernest E. Fish
Principal Investigator

EDF:jhm